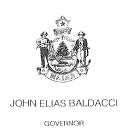
STATE OF MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION



DAVID P. LITTELL

COMMISSIONER

Global Companies, LLC **Cumberland County** South Portland, Maine A-432-71-K-A (SM)

Departmental Findings of Fact and Order **Air Emission License** Amendment #1

After review of the air emissions license application, staff investigation reports and other documents in the applicant's file in the Bureau of Air Quality, pursuant to 38 M.R.S.A., § 344 and § 590, the Department finds the following facts:

I. REGISTRATION

A. Introduction

Global Companies, LLC (Global) located in South Portland, Maine was issued Air Emission License A-432-71-J-R on 1/30/2008, permitting the operation of emission sources associated with their petroleum storage and distribution facility.

Global has requested a Minor Modification to their License permitting the installation of a hot oil heater firing #2 fuel oil, for Tank #9. Global is also installing a 2000 gallon above ground storage tank to supply the hot oil heater. The tank will store only #2 fuel oil for the hot oil heater and, as such, is considered an insignificant activity per Major and Minor Source Air Emission License Regulations, 06-096 CMR 115 (last amended December 24, 2005), Appendix B, Section B(7).

B. Emission Equipment

The following equipment is addressed in this air emission license:

New Fuel Burning Equipment

Equipment	Maximum Capacity (MMBtu/hr)	Maximum Firing Rate (gal/hr)	Fuel Type	Stack #
Hot Oil	3.1	22.0	#2 fuel oil	5
Heater				

C. Application Classification

The modification of a minor source is considered a major modification based on whether or not expected emission increases exceed the "Significant Emission Levels" as defined in the Department's regulations. This modification is determined to be a minor modification and has been processed as such.

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II. BEST PRACTICAL TREATMENT (BPT)

A. Introduction

In order to receive a license the applicant must control emissions from each unit to a level considered by the Department to represent Best Practical Treatment (BPT), as defined in *Definitions Regulation*, 06-096 CMR 100 (last amended December 24, 2005). Separate control requirement categories exist for new and existing equipment as well as for those sources located in designated non-attainment areas.

BPT for new sources and modifications requires a demonstration that emissions are receiving Best Available Control Technology (BACT), as defined in 06-096 CMR 100. BACT is a top-down approach to selecting air emission controls considering economic, environmental and energy impacts.

B. Hot Oil Heater

Global is converting an existing #6 fuel oil tank (Tank #9) into a liquid asphalt storage tank. This necessitates the installation of a heater to maintain the asphalt's liquid state. The Hot Oil Heater is rated at 3.1 MMBtu/hr.

A summary of the BACT analysis for the Hot Oil Heater is the following:

- 1. The Hot Oil Heater shall not exceed SO₂ emissions of 4.2 tons based on a 12-month rolling total. This is the equivalent of firing 200,000 gallons of #2 fuel oil with a sulfur content not to exceed 0.3%. However, at no time shall the Hot Oil Heater exceed a fuel sulfur content of 0.5%.
- 2. Global shall keep fuel records documenting the amount of #2 fuel oil fired in the Hot Oil Heater that include the sulfur content of the fuel. These records shall be kept on a monthly and annual basis.
- 3. Low Sulfur Fuel, 06-096 CMR 106 (last amended June 9, 1999) regulates fuel sulfur content. However, the use of #2 fuel oil with a sulfur content not to exceed 0.5% is more stringent and shall be considered BACT.
- 4. Fuel Burning Equipment Particulate Emission Standard, 06-096 CMR 103 (last amended November 3, 1990) regulates PM emission limits. However, the Department has determined that a more stringent limit of 0.08 lb/MMBtu is more appropriate and shall be considered BACT. The PM₁₀ limits are derived from the PM limits.
- 5. NOx, CO and VOC emission limits are based upon AP-42 data dated 9/98.
- 6. Visible emissions from the Hot Oil Heater shall not exceed 10% opacity on a 6 minute block average, except for no more than one (1), six (6) minute block average in a continuous 3 hour period.

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C. Annual Emissions

Global shall be restricted to the following annual emissions, based on a 12 month rolling total:

Total Licensed Annual Emissions for the Facility Tons/year

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(used to calculate the annual license fee)

	PM	PM ₁₀	SO ₂	NO _x	CO	VOC	Total HAP
Boilers	18.0	18.0	45.0	45.0	3.0		
Generator #1	0.1	0.1	0.1	0.8	0.2		
Hot Oil Heater	1.1	1.1	4.2	2.0	0.5		ted to:
Facility Wide			100 800		W 15	20.0	9.9
Total TPY	19.2	19.2	49.3	47.8	3.7	20.0	9.9

III.AMBIENT AIR QUALITY ANALYSIS

According to 06-096 CMR 115, the level of air quality analyses required for a minor **new** source shall be determined on a case-by case basis. Based on the information available in the file, and the similarity to existing sources, Maine Ambient Air Quality Standards (MAAQS) will not be violated by this source.

ORDER

Based on the above Findings and subject to conditions listed below, the Department concludes that the emissions from this source:

- will receive Best Practical Treatment,
- will not violate applicable emission standards,
- will not violate applicable ambient air quality standards in conjunction with emissions from other sources.

Global Companies, LLC Cumberland County South Portland, Maine A-432-71-K-A (SM)

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The Department hereby grants Air Emission License A-432-71-K-A subject to the conditions found in A-432-71-J-R, and the following conditions:

<u>Severability</u>. The invalidity or unenforceability of any provision, or part thereof, of this License shall not affect the remainder of the provision or any other provisions. This License shall be construed and enforced in all respects as if such invalid or unenforceable provision or part thereof had been omitted.

The following is a new condition:

SPECIFIC CONDITIONS

(1) Hot Oil Heater

- A. The Hot Oil Heater shall not exceed SO₂ emissions of 4.2 tons based on a 12-month rolling total. [06-096 CMR 115, BACT]
- B. At no time shall the Hot Oil Heater exceed a fuel sulfur content of 0.5%. [06-096 CMR 115, BACT]
- C. The Hot Oil Heater shall fire only #2 fuel oil. [06-096 CMR 115, BACT]
- D. Global shall keep records of the amount of #2 fuel oil fired in the Hot Oil Heater and the corresponding sulfur content as well as monthly records showing the calculated SO₂ emissions on a monthly and 12-month rolling total basis. [06-096 CMR 115, BACT]
- E. Emissions shall not exceed the following:

Emission Unit	Pollutant	lb/MMBtu	Origin and Authority
Hot Oil Heater	PM	0.08	06-096 CMR 103(2)(B)(1)(a), BACT

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F. Emissions shall not exceed the following [06-096 CMR 115, BACT]:

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Emission	PM	PM ₁₀	SO ₂	NO _x	CO	VOC
Unit	(lb/hr)	(lb/hr)	(lb/hr)	(lb/hr)	(lb/hr)	(lb/hr)
Hot Oil Heater	0.25	0.25	1.56	0.44	0.11	0.01

G. Visible emissions from the Hot Oil Heater shall not exceed 10% opacity on a six (6) minute block average, except for no more than one (1), six (6) minute block average in a continuous 3-hour period. [06-096 CMR 101]

DONE AND DATED IN AUGUSTA, MAINE THIS	24 h DAY OF	hyust	2009.
DEPARTMENT OF ENVIRONMENTAL PROTECTION	1	,	
BY: Noneh M. Gruell. DAVID P. LITTELL, COMMISSIONER			

The term of this amendment shall be concurrent with the term of Air Emission License A-432-71-J-R.

PLEASE NOTE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES

Date of initial receipt of application: 6/23/2009
Date of application acceptance: 6/24/2009

Date filed with the Board of Environmental Protection:

This Order prepared by Jonathan Voisine, Bureau of Air Quality.

